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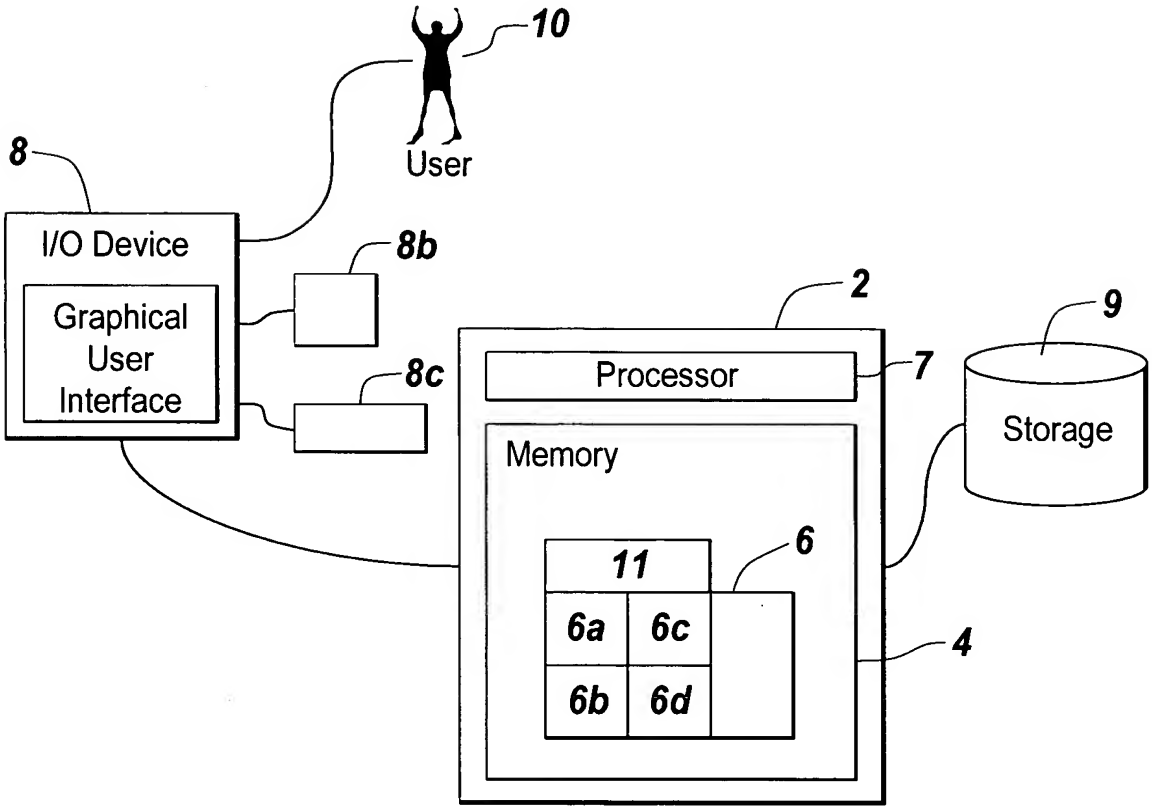
10
User
8
I/O Device
Graphical User Interface
8b
8c
2
Processor
7
Memory
11
6
6a
6c
6b
6d
4
9
Storage

Fig. 1A

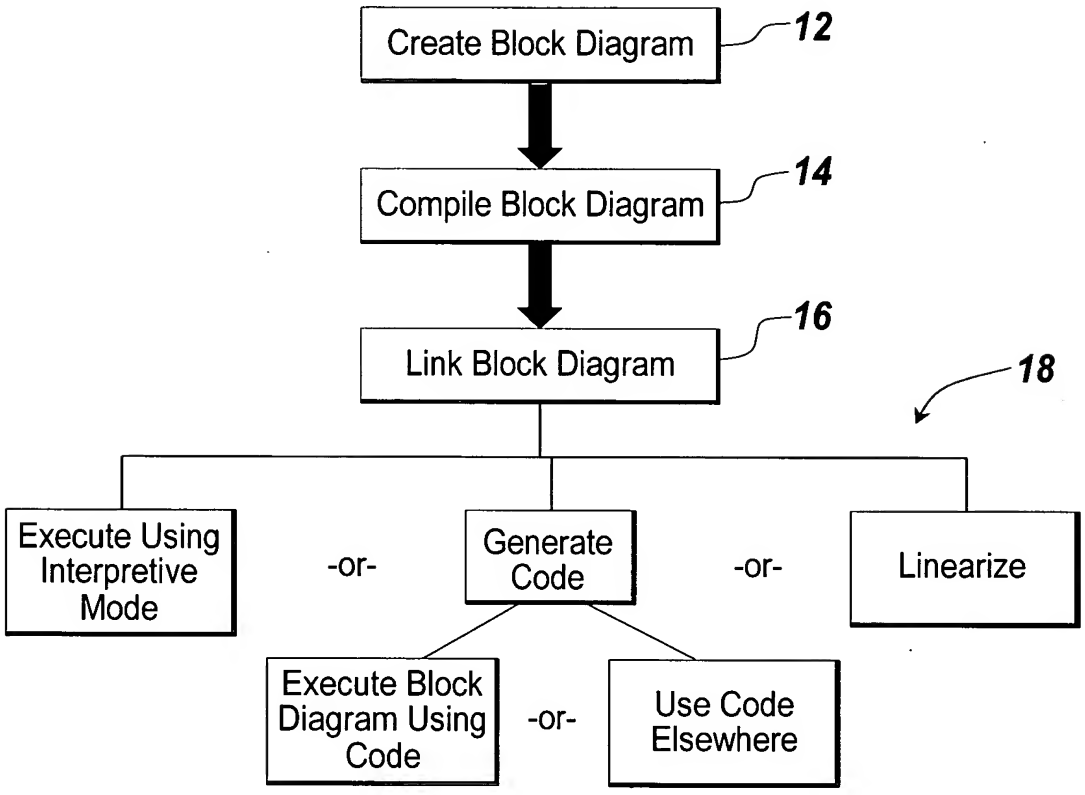
Create Block Diagram
12
Compile Block Diagram
14
Link Block Diagram
16
18
Execute Using Interpretive Mode
-or-
Generate Code
-or-
Linearize
Execute Block Diagram Using Code
-or-
Use Code Elsewhere

Fig. 1B

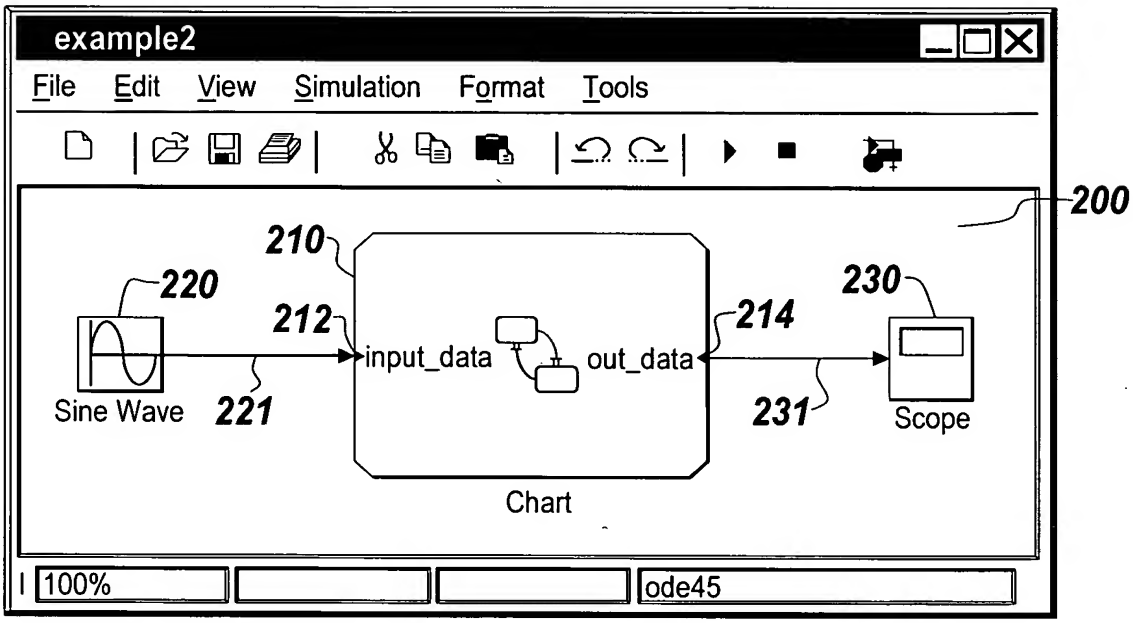
example2
File Edit View Simulation Format Tools
200
210
220
212
214
230
input_data
out_data
Sine Wave
221
231
Scope
Chart
100%
ode45

Fig. 2

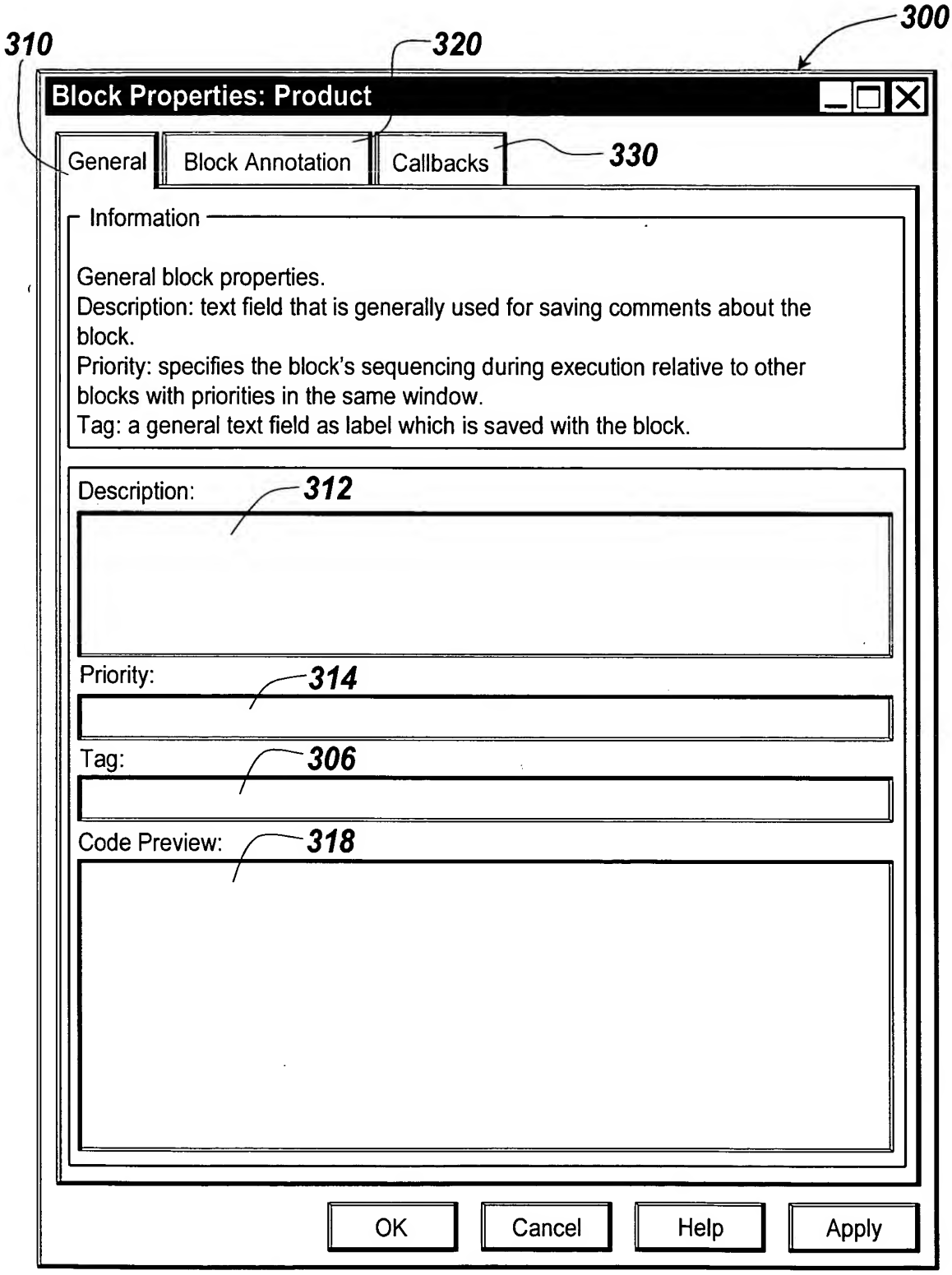
300
310
320
Block Properties: Product
General
Block Annotation
Callbacks
330
Information
General block properties.
Description: text field that is generally used for saving comments about the block.
Priority: specifies the block's sequencing during execution relative to other blocks with priorities in the same window.
Tag: a general text field as label which is saved with the block.
Description:
312
Priority:
314
Tag:
306
Code Preview:
318
OK
Cancel
Help
Apply

Fig. 3A

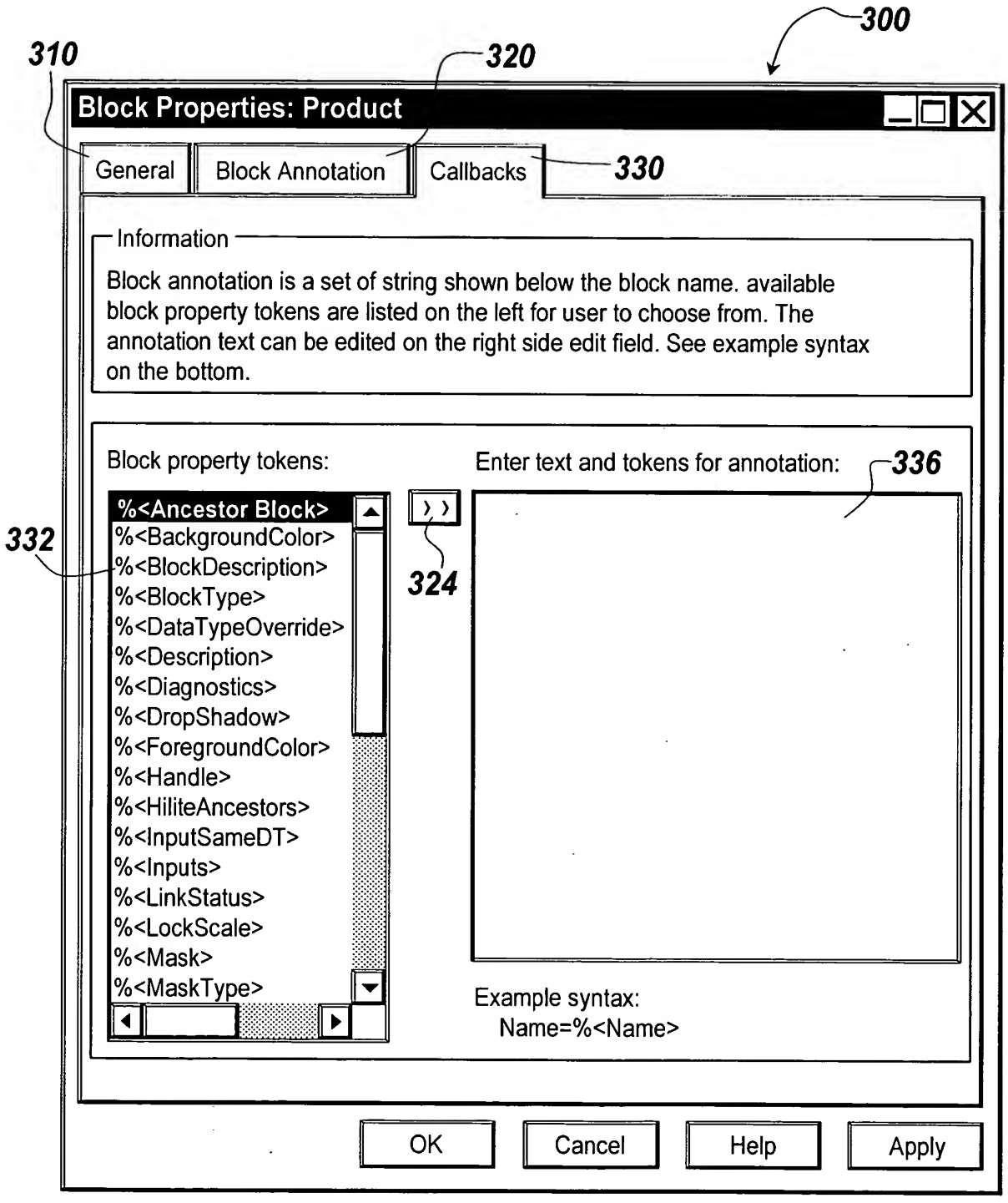
300
310
320
Block Properties: Product
General
Block Annotation
Callbacks
330
Information
Block annotation is a set of string shown below the block name. available block property tokens are listed on the left for user to choose from. The annotation text can be edited on the right side edit field. See example syntax on the bottom.
Block property tokens:
Enter text and tokens for annotation:
336
332
%<Ancestor Block>
%<BackgroundColor>
%<BlockDescription>
%<BlockType>
%<DataTypeOverride>
%<Description>
%<Diagnostics>
%<DropShadow>
%<ForegroundColor>
%<Handle>
%<HiliteAncestors>
%<InputSameDT>
%<Inputs>
%<LinkStatus>
%<LockScale>
%<Mask>
%<MaskType>
324
Example syntax:
Name=%<Name>
OK
Cancel
Help
Apply

Fig. 3B

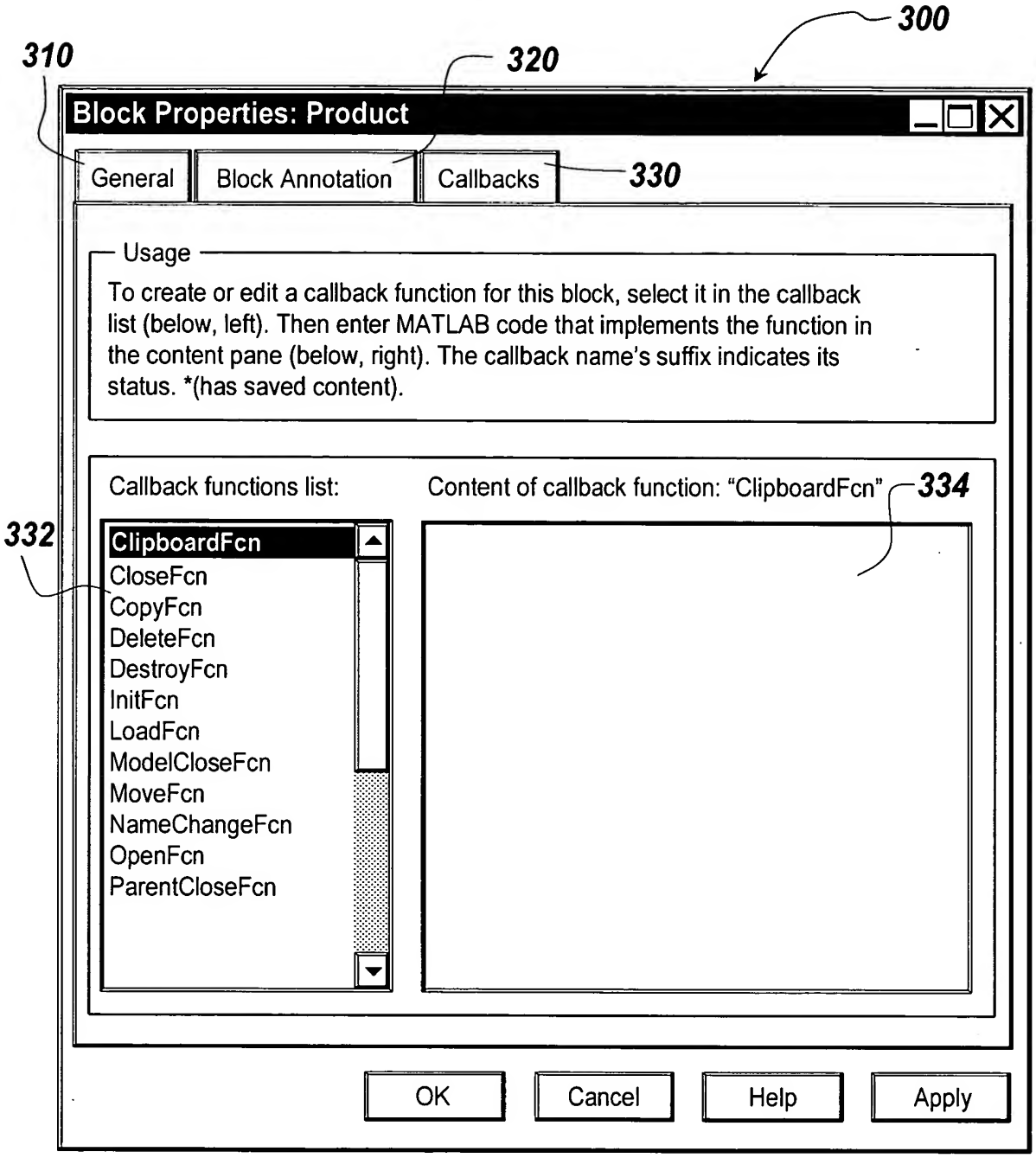
300
310
320
Block Properties: Product
General
Block Annotation
Callbacks
330
Usage
To create or edit a callback function for this block, select it in the callback list (below, left). Then enter MATLAB code that implements the function in the content pane (below, right). The callback name's suffix indicates its status. *(has saved content).
Callback functions list:
Content of callback function: "ClipboardFcn"
334
332
ClipboardFcn
CloseFcn
CopyFcn
DeleteFcn
DestroyFcn
InitFcn
LoadFcn
ModelCloseFcn
MoveFcn
NameChangeFcn
OpenFcn
ParentCloseFcn
OK
Cancel
Help
Apply

Fig. 3C

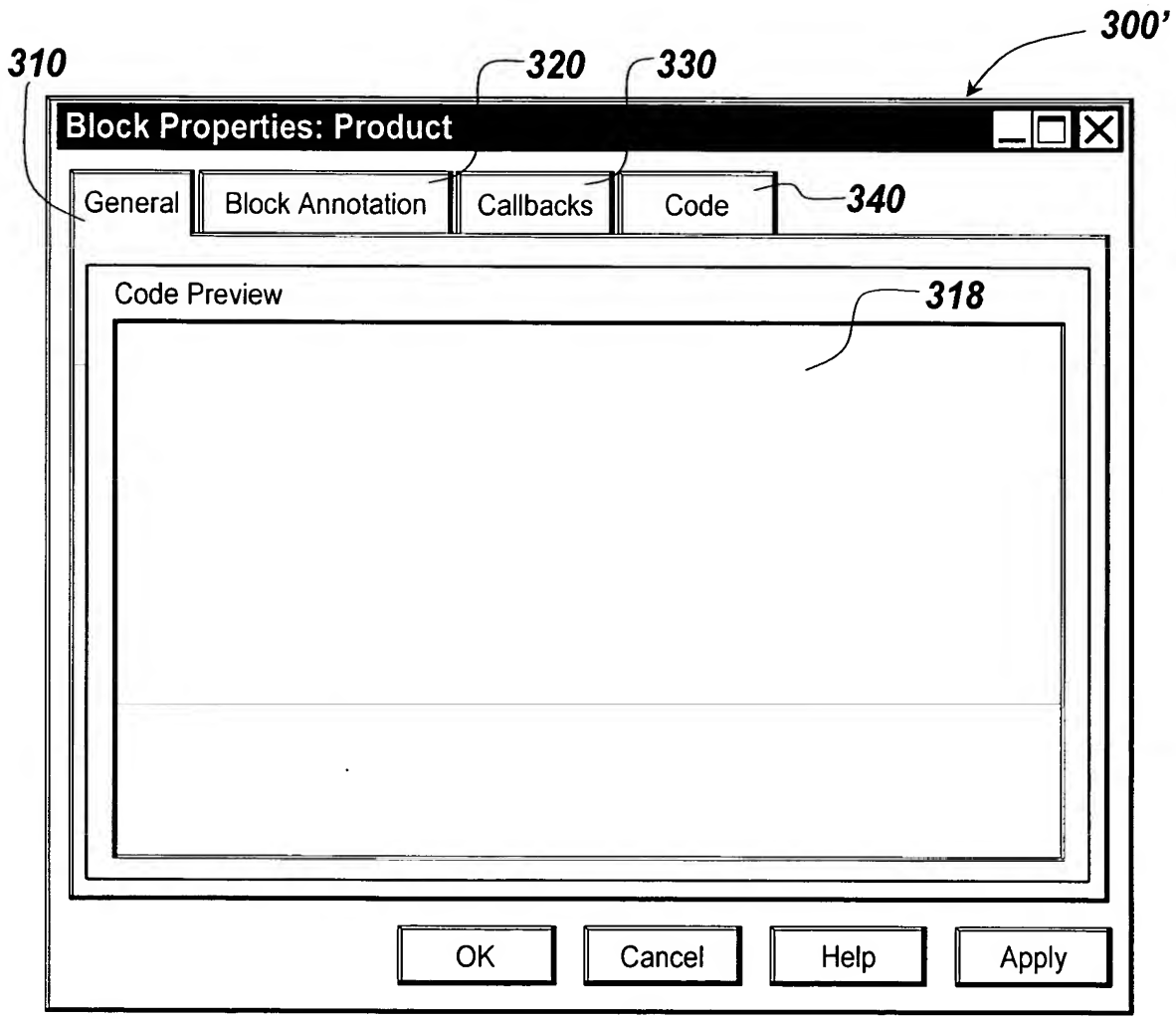
300'
310
320
330
Block Properties: Product
General
Block Annotation
Callbacks
Code
340
Code Preview
318
OK
Cancel
Help
Apply

Fig. 4

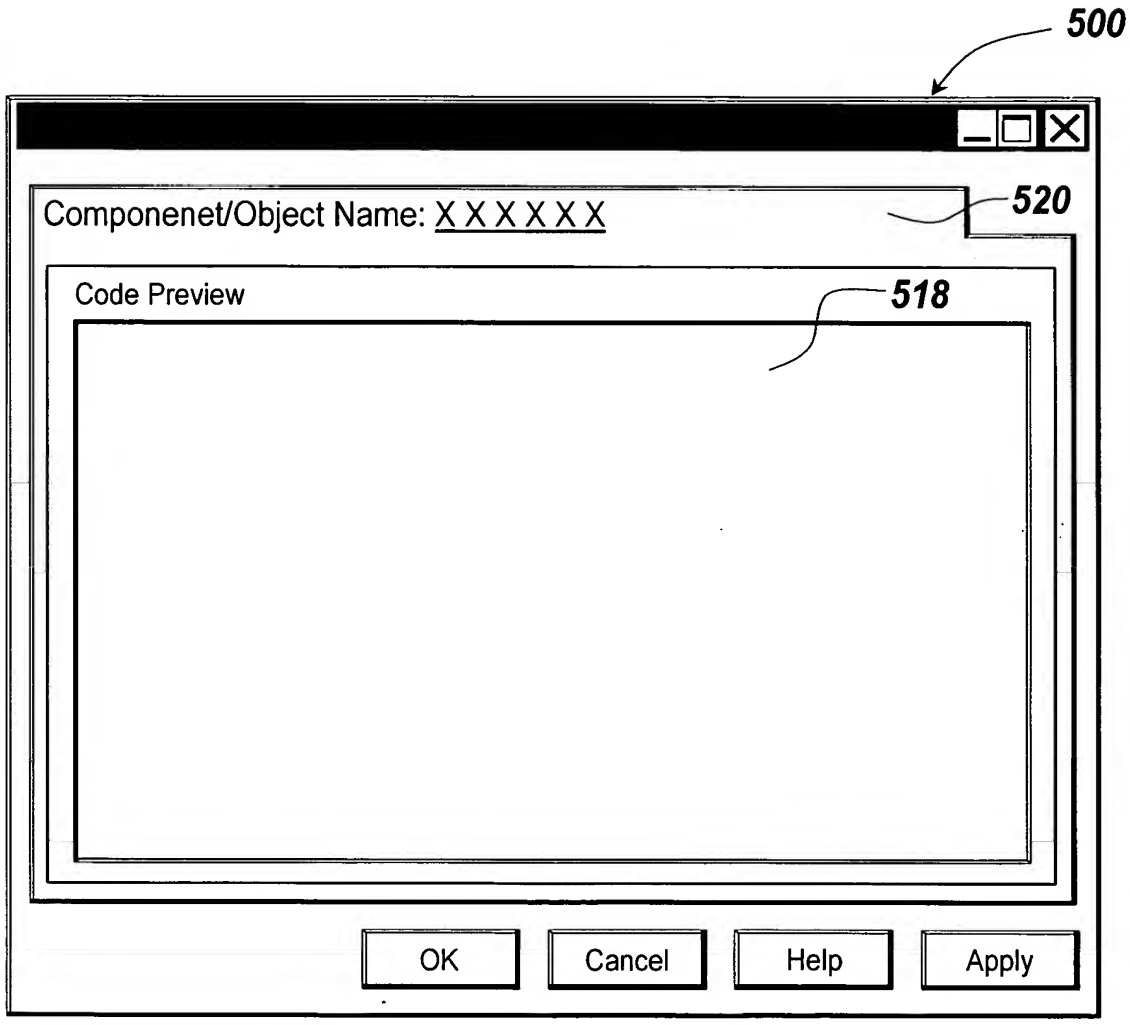
500
Componenet/Object Name: X X X X X X
520
Code Preview
518
OK
Cancel
Help
Apply

Fig. 5

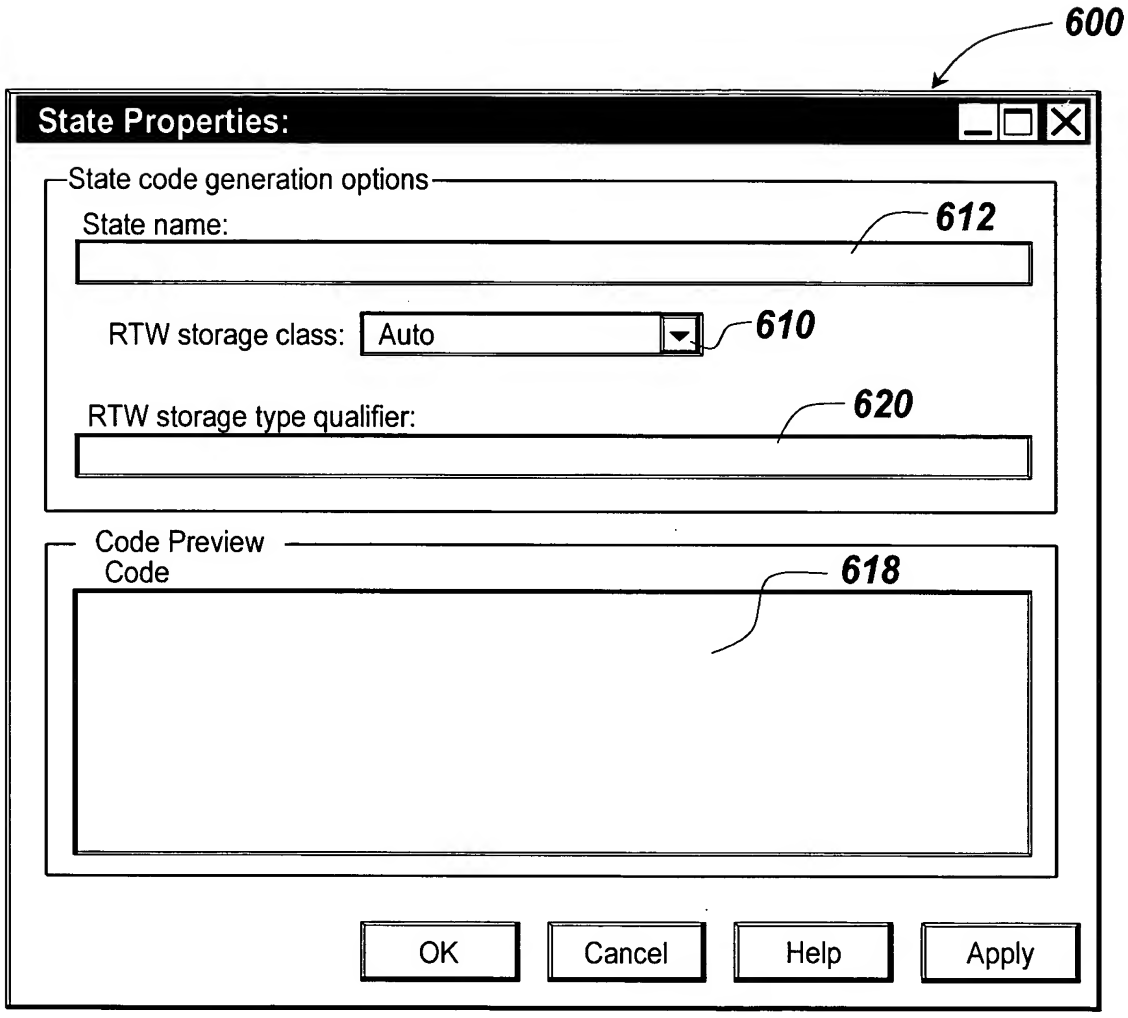
600
State Properties:
State code generation options
State name:
612
RTW storage class:
Auto
610
RTW storage type qualifier:
620
Code Preview
Code
618
OK
Cancel
Help
Apply

Fig. 6

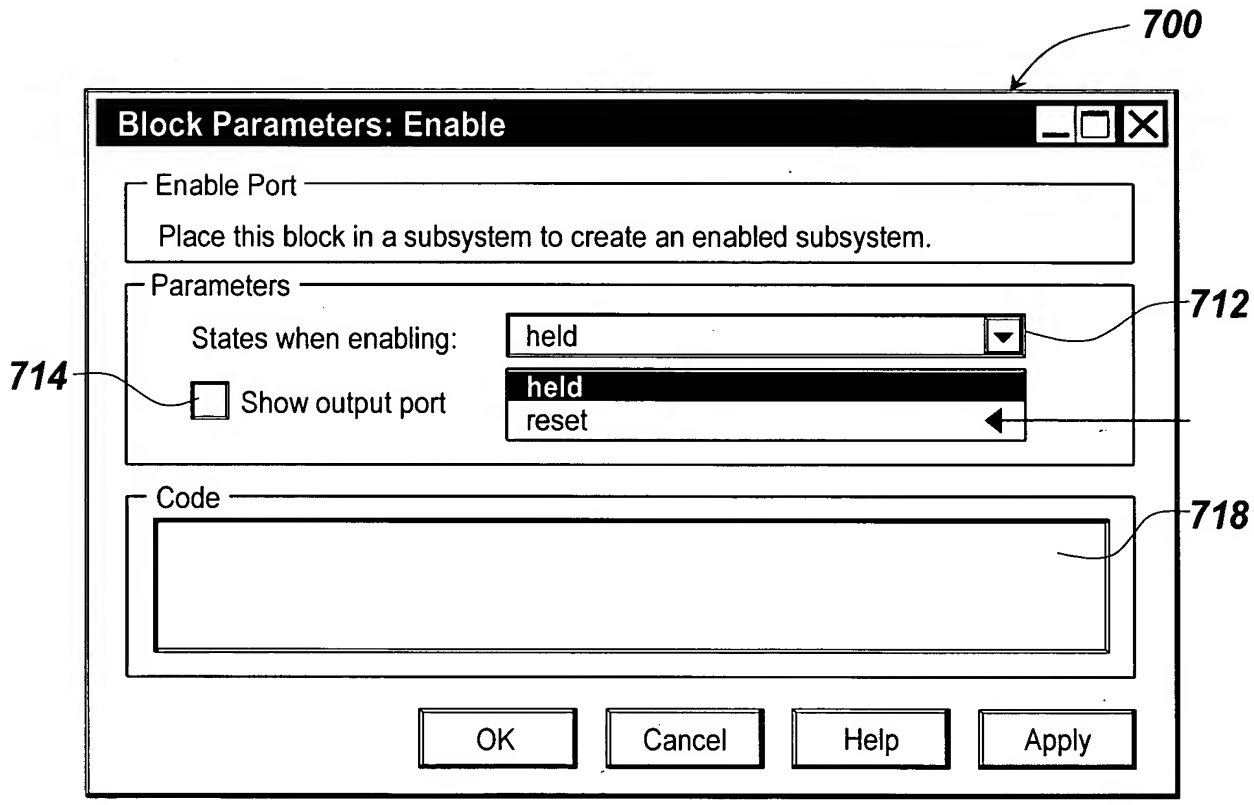
700
Block Parameters: Enable
Enable Port
Place this block in a subsystem to create an enabled subsystem.
Parameters
States when enabling:
held
712
714
Show output port
held
reset
Code
718
OK
Cancel
Help
Apply

Fig. 7

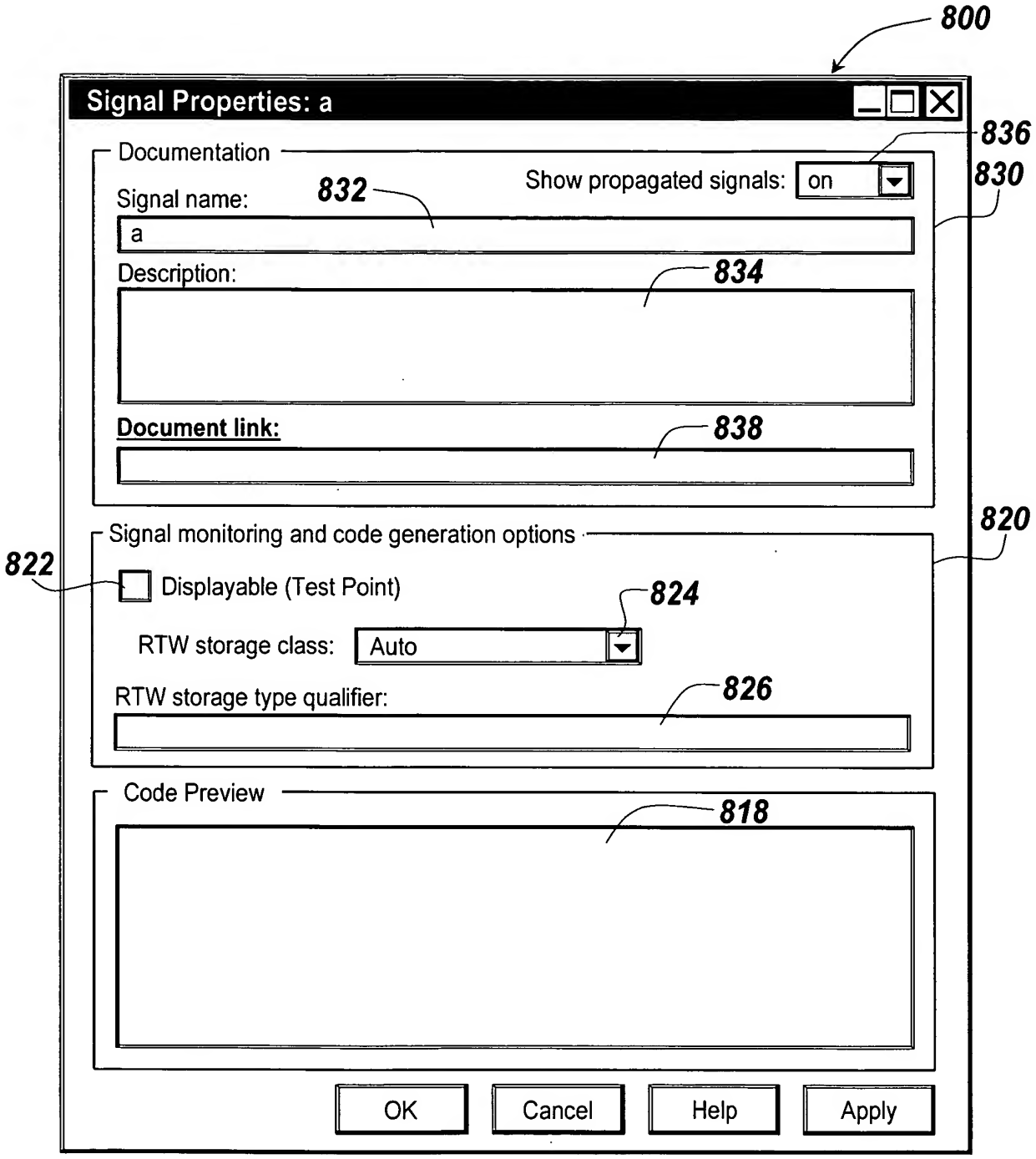
800
Signal Properties: a
Documentation
Show propagated signals:
on
836
830
Signal name:
832
a
Description:
834
Document link:
838
Signal monitoring and code generation options
820
822
Displayable (Test Point)
824
RTW storage class:
Auto
RTW storage type qualifier:
826
Code Preview
818
OK
Cancel
Help
Apply

Fig. 8

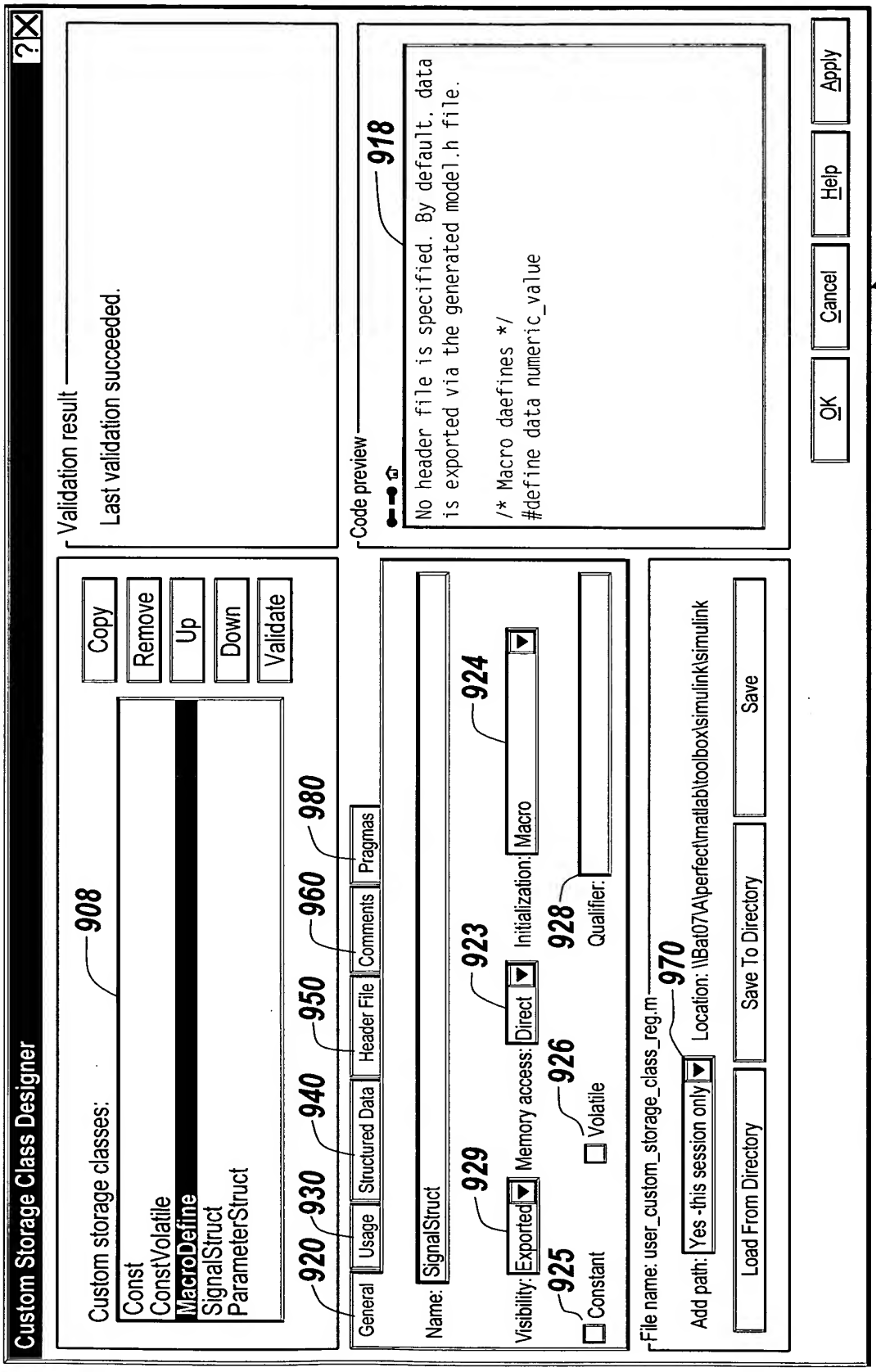
Custom Storage Class Designer
Custom storage classes:
908
Const
ConstVolatile
MacroDefine
SignalStruct
ParameterStruct
Copy
Remove
Up
Down
Validate
Validation result
Last validation succeeded.
Code preview
918
No header file is specified. By default, data is exported via the generated model.h file.
/* Macro daefines */
#define data numeric_value
General
Usage
Structured Data
Header File
Comments
Pragmas
920
930
940
950
960
980
Name: SignalStruct
929
Visibility: Exported
Memory access: Direct
923
Initialization: Macro
924
Constant
925
Volatile
926
Qualifier:
928
File name: user_custom_storage_class_reg.m
970
Add path: Yes -this session only
Location: \\Bat07\A\perfect\matlab\toolbox\simulink\simulink
Load From Directory
Save To Directory
Save
OK
Cancel
Help
Apply
900

Fig. 9

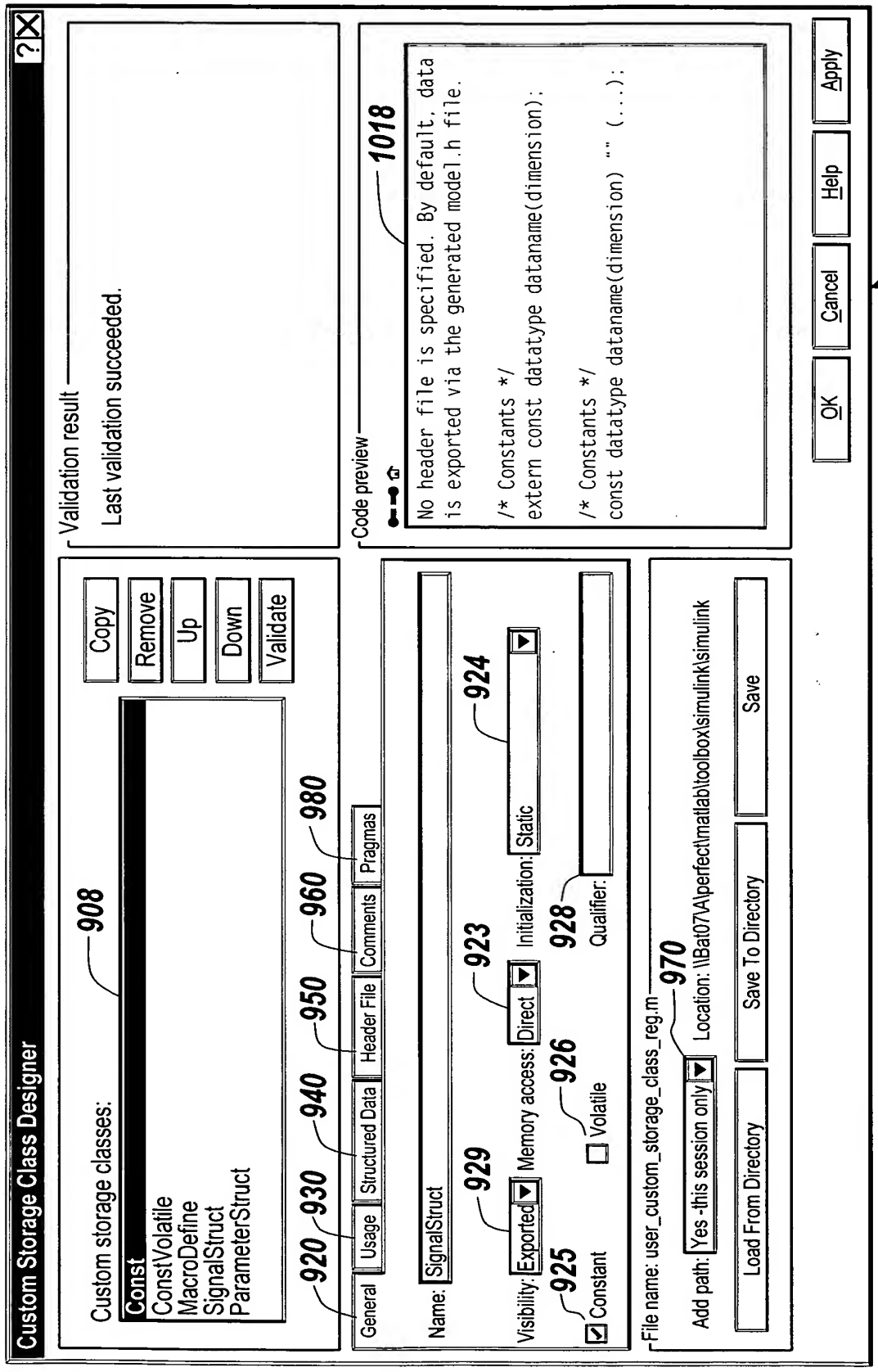
Custom Storage Class Designer
Custom storage classes:
908
Const
ConstVolatile
MacroDefine
SignalStruct
ParameterStruct
Copy
Remove
Up
Down
Validate
Validation result
Last validation succeeded.
Code preview
1018
No header file is specified. By default, data is exported via the generated model.h file.
/* Constants */
extern const datatype dataname(dimension);
/* Constants */
const datatype dataname(dimension) "" (...);
General
Usage
Structured Data
Header File
Comments
Pragmas
920
930
940
950
960
980
Name: SignalStruct
929
924
923
Visibility: Exported
Memory access: Direct
Initialization: Static
925
926
928
Constant
Volatile
Qualifier:
File name: user_custom_storage_class_reg.m
970
Add path: Yes -this session only
Location: \\Bat07\A\perfect\matlab\toolbox\simulink\simulink
Load From Directory
Save To Directory
Save
OK
Cancel
Help
Apply
900'

Fig. 10

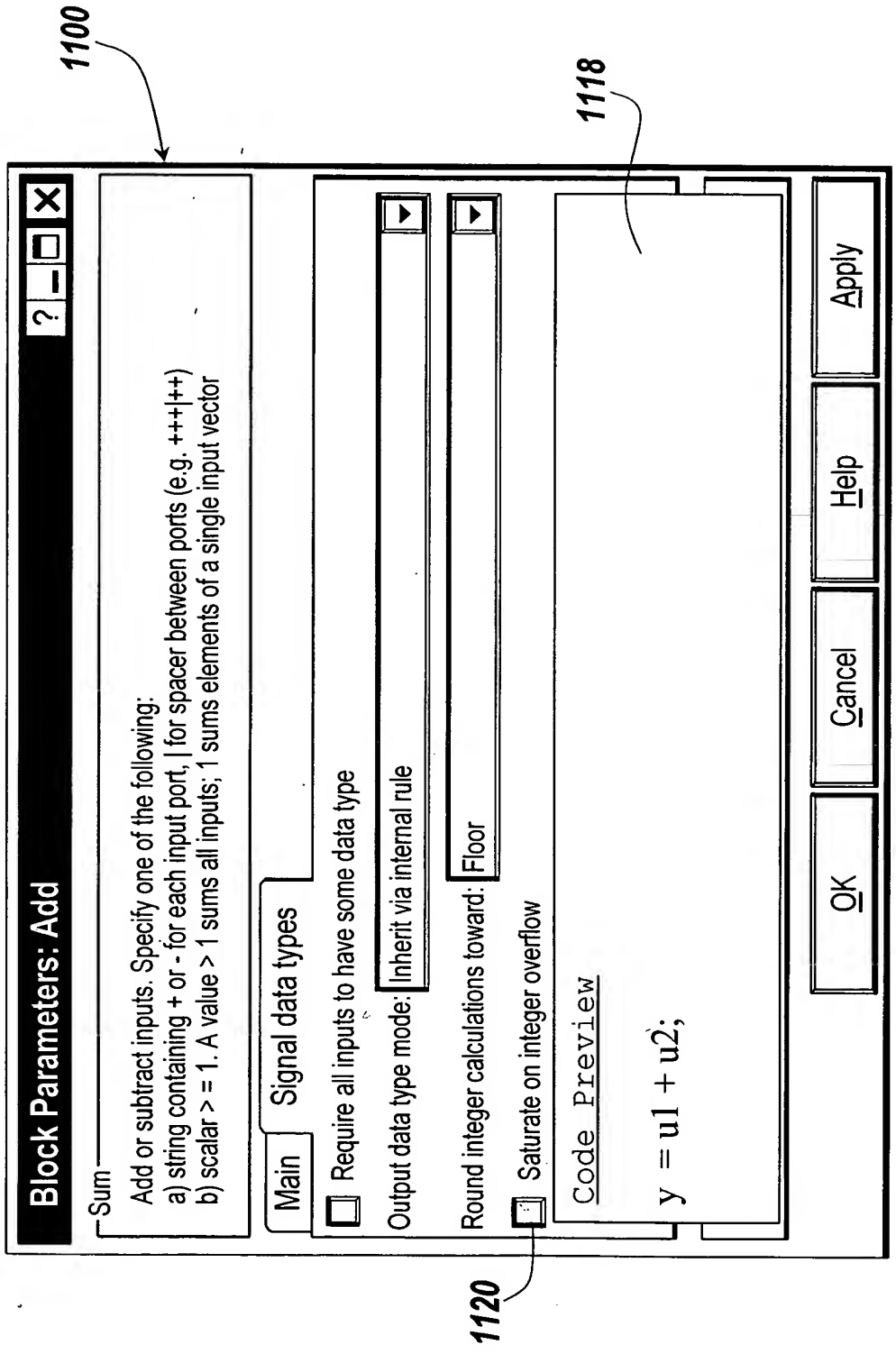
1100
1118
1120
Block Parameters: Add
Sum
Add or subtract inputs. Specify one of the following:
a) string containing + or - for each input port, | for spacer between ports (e.g. +++|++)
b) scalar > = 1. A value > 1 sums all inputs; 1 sums elements of a single input vector
Main
Signal data types
Require all inputs to have some data type
Output data type mode: Inherit via internal rule
Round integer calculations toward: Floor
Saturate on integer overflow
Code Preview
y = u1 + u2;
OK
Cancel
Help
Apply

Fig. 11A

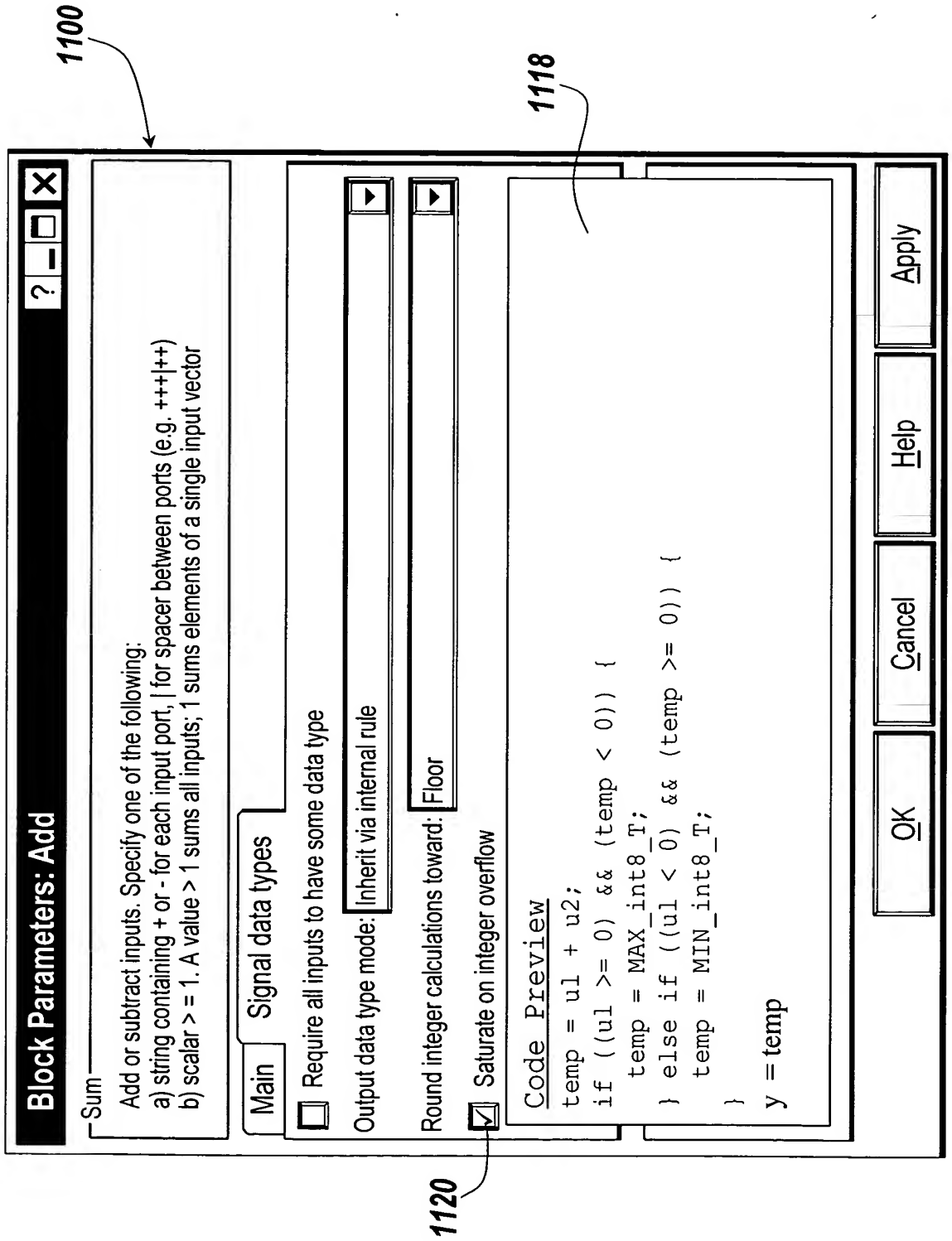
1100
1118
1120
Block Parameters: Add
Sum
Add or subtract inputs. Specify one of the following:
a) string containing + or - for each input port, | for spacer between ports (e.g. +++|++)
b) scalar > = 1. A value > 1 sums all inputs; 1 sums elements of a single input vector
Main
Signal data types
Require all inputs to have some data type
Output data type mode: Inherit via internal rule
Round integer calculations toward: Floor
Saturate on integer overflow
Code Preview
temp = u1 + u2;
if ((u1 >= 0) && (temp < 0)) {
temp = MAX_int8_T;
} else if ((u1 < 0) && (temp >= 0)) {
temp = MIN_int8_T;
}
y = temp
OK
Cancel
Help
Apply

Fig. 11B

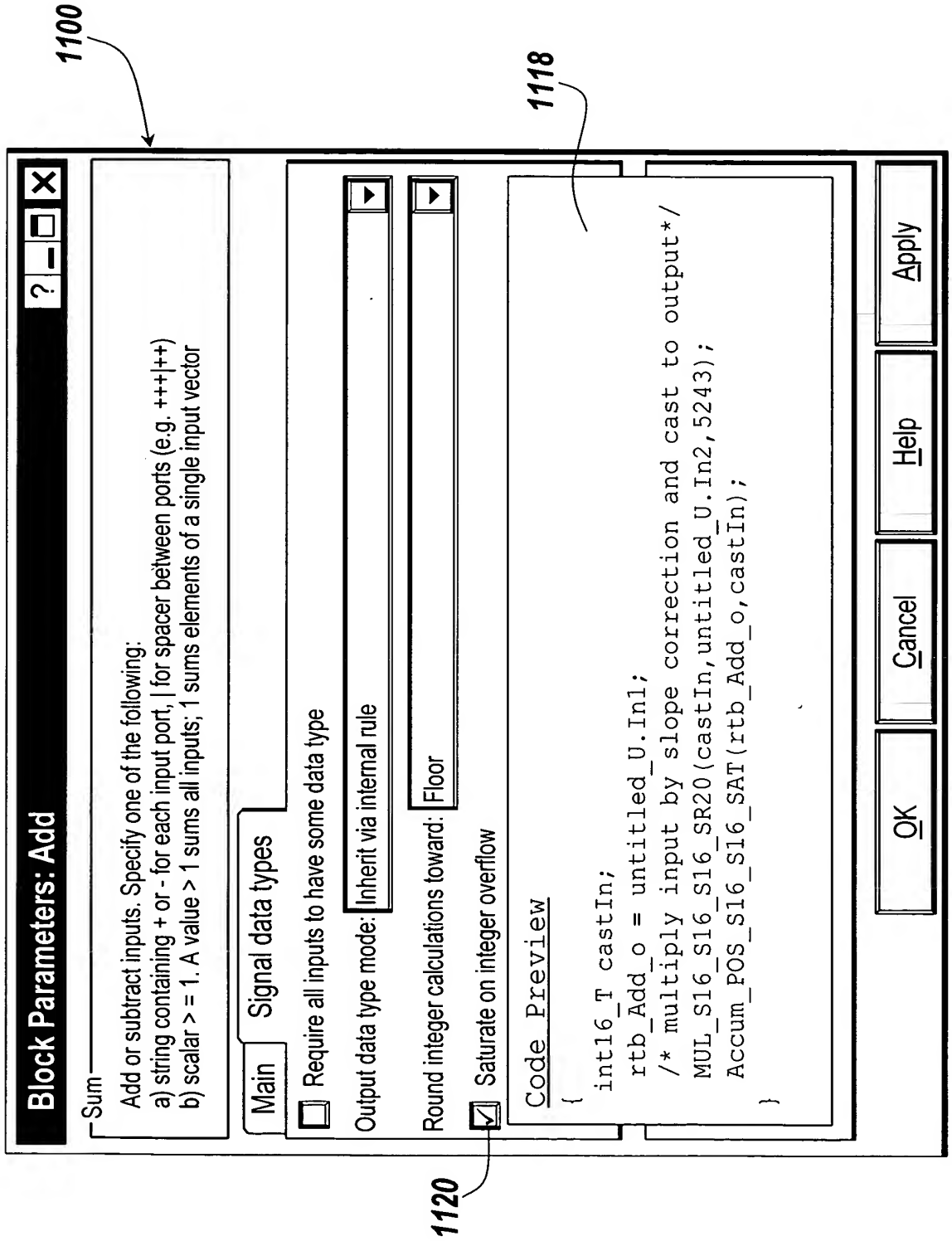
1100
1118
1120
Block Parameters: Add
Sum
Add or subtract inputs. Specify one of the following:
a) string containing + or - for each input port, | for spacer between ports (e.g. +++|++)
b) scalar > = 1. A value > 1 sums all inputs; 1 sums elements of a single input vector
Main
Signal data types
Require all inputs to have some data type
Output data type mode: Inherit via internal rule
Round integer calculations toward: Floor
Saturate on integer overflow
Code Preview
int16_T castIn;
rtb_Add_o = untitled_U.In1;
/* multiply input by slope correction and cast to output*/
MUL_S16_S16_S16_SR20(castIn,untitled_U.In2,5243);
Accum_POS_S16_S16_SAT(rtb_Add_o,castIn);
}
OK
Cancel
Help
Apply

Fig. 11C

17/17

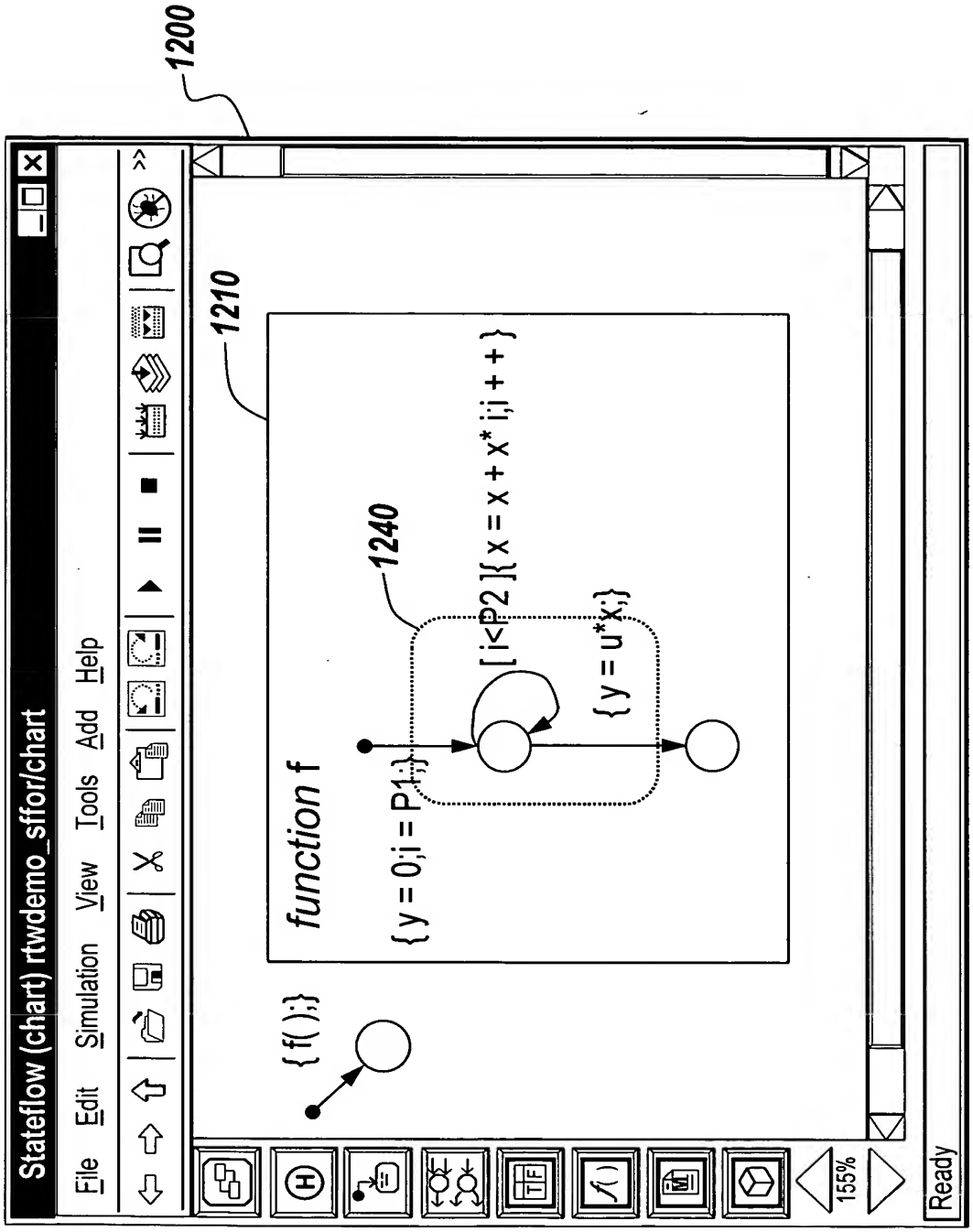
1200
Stateflow (chart) rtwdemo_sffor/chart
File Edit Simulation View Tools Add Help
1210
function f
{ f( );}
{y = 0;i = P1;}
1240
[i<P2]{x = x + x* i;i + +}
{y = u*x;}
155%
Ready

Fig. 12